Solvay Minerals, Inc.

Permit #30-126

PROCEDURE FOR MINIMIZATION OF CO EMISSIONS FROM CALCINER BURNERS

(Update January 2001)

The natural-gas burners on calciners CA-1 & 2 (common stack AQD #17), CA-3 (AQD #48), and CA-4 (AQD #80) are designed to produce low emissions through pre-mixing of air and fuel. Control of the air-to-fuel ratio is important in operating the burners such that CO emissions are minimized.

The air-to-fuel ratio is controlled by the Distributive Control System (DCS), based on continuously measured air flow, fuel flow, and heating value of the fuel.

The burners are normally operated with an air ratio of 130% to 180% of stoichiometric air. Air ratios lower than this could result in increased emissions. The DCS shuts down a burner if its air ratio falls to 130% or lower. (Trip points may be set higher than 130% for process reasons not related to CO emissions. This higher trip point will still insure compliance with this Procedure.)

These air ratios are historized from the DCS to the Plant Historian and archived for five years.